

Insert company's document reference number here

Insert [Company Name and Logo]

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Tel No.:

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Insert [Rock or sand mining, Quarry name, Complete Administrative Location]

Note: If it is river mining, must state the name of the river

MINE CLOSURE PLAN

This template is created under the requirement set forth in Article 26 AND Article 76 of Law No. 12/2021 30th of June, on Mining Code and other Applicable Law. It also adopted some clauses from ISO 21792-1:2021.

Rev	Date	Prepared	Checked	Approved
0				

Full name and position must be provided for each Prepared, Checked and Approved, with signatures and stamp.

Note: This template is to be followed exactly as it is in terms of the cover page, table of contents, the title of the sections and sub-sections. The description in this template is to guide project proponents on what types of information is required, not to be used as a Question-and-Answer format. Please be reminded that one Mine Closure Plan only applies for one concession area acknowledged by ANM.

Table of Contents

List of Figures and Annexes

1. Executive Summary

Provide a summary of the key closure activity identified for each phase of the proposed project, and the measures that will be put in place to manage and monitor the closure activities.

2. Introduction Of Mine Closure Plan

Briefly describe the overall mine closure activities

3. Details of Consultant or Competent Persons who Prepared the Mine Closure Plan

Including contact details, educational background and list of relevant experiences and success stories relevant to environmental management or mine closure, preferably in the mining industry.

4. Project description

This section should include details of project activities.

5. Terms And Definitions

List out technical and significant terms used in this document, with definitions for each term.

6. Responsibilities

a. Legal Requirements and Institutional Framework

List and describe all applicable laws and regulations relating to mine activities, particularly on mine closure. Must also provide international guidelines and best practices of mine closure.

b. The Holder of Mineral Rights Responsibility

Define the roles and responsibilities of the mineral rights holder and key personnel involved in mine closure activities.

c. Stakeholders' Engagement

Outline strategies for engaging stakeholders, including local communities, regulatory agencies, and other interested parties. Describe how feedback will be collected, addressed, and how concerns will be managed.

7. Mine Site Description

a. Mine Site Characterization

Provide a comprehensive characterization of the mine site, including geological, hydrological, and environmental conditions.

b. Physical And Chemical Stability

Describe the stability of the area considering physical and chemical factors.

c. Social and economic conditions

Describe the living conditions of the nearby community including their surrounding environment and their economic stability. Underline negative and positive impacts of the mining activities to the communities and how the mine closure will ensure that the community will be left with no negative impacts.

8. Mine Closure Technical Plan and Design

a. Mine Closure Objectives and Commitments

Articulate the specific objectives and commitments of the project proponent concerning the mine closure plan. Include goals for environmental restoration, safety, and compliance with regulations.

b. Sustainable Land and Water Use

i. physical and chemical control

From the description in Section 9 (b), articulate how the physical and chemical factors will be controlled and managed. Including considerations of the land and water use.

ii. contaminated media

Detail procedures for managing and remediating contaminated media, including soil, water, and waste materials, in considerations of the land and water use.

c. Mine Design and Operation for Mine Closure

i. Infrastructure decommissioning and disposal

Outline the steps for decommissioning and disposing of mine infrastructure, including dismantling and waste management.

ii. Mine site progressive rehabilitation and/or reclamation

Describe the approach for progressive rehabilitation and/or reclamation throughout the mine's operational phase to minimize impacts and facilitate sustainable closure.

iii. Progressive monitoring and maintenance plan

Develop monitoring and maintenance plan following every steps of the progressive closure activities.

d. Risk And Opportunity Assessment and Management

Assess risks and opportunities associated with the rehabilitation and/or reclamation process, including potential environmental, social, and economic impacts.

e. Closure success criteria

Provide methods of measurement to ensure mine closure is implemented successfully.

9. Mine Closure Budget and Schedule

a. Financial Plan

i. Cost estimates

Cost estimation specifically for the mine closure activities. Highly recommend using internationally recognized mine closure cost estimation formula such as the British Columbia Closure Bond Calculator.

Reference below: British Columbia Closure Bond Calculator

Mine Site Closure Activities		Quantity	Area/Unit	Rate (\$/unit)	Length (m)	Width (m)	Depth (m)	Subtotal
<i>a</i>	<i>i.e. Topsoil Placement</i>		<i>ha</i>					
<i>b</i>	<i>i.e. Infrastructure disposal</i>		<i>m³</i>					

ii. Financial assurance

Provide supporting documents i.e. bank confirmation letter, to ensure that the cost estimated for the mine closure will be reserved. In cases of bankruptcy, abandonment or any other circumstance that the mine activities had to stop prior to its planned scheduled closing date, the amount of the cost estimated will be handed to the regulatory authority to ensure planned closure will be successfully implemented.

b. Mine Closure Schedule

Develop a detailed schedule for the activities, including key milestones and deadlines. Ensure that the schedule reflects the plan for progressive closure rather than only towards the end of the mine activities.

10. Post-Closure

a. Post-closure Land-use Plan and Closure Treatment Resilience

Develop a plan for post-closure land use, including ensuring the sustainability and resilience of the land rehabilitation and potential future uses.

b. Social transition to closure

Consider the social impacts and economic loss that might incur after the mining activities have ceased. Propose how project proponent will ensure local communities will not experience severe loss in employment opportunities or other economic loss.

c. post-closure monitoring and maintenance

Develop a plan to monitor and oversee the successful implementation of the closure activities post-closure.